

CLAIMS

1. A **filmy object containing an electrically conductive polymer, characterized in that**

5 **(1) said electrically conductive polymer is one obtained by the electrolytic polymerization method and**

(2) upon immersion in a good solvent, said **filmy object expands to come to have a film surface area larger by 30% or more than the film surface area before the immersion.**

10 **2. The **filmy object of Claim 1, wherein, in said electrically conductive polymer, the monomer is pyrrole and/or a pyrrole derivative.****

15 **3. The **filmy object of Claim 1, wherein said good solvent is a polar organic solvent.****

4. The **filmy object of Claim 1, wherein said good solvent is acetone or propylene carbonate.**

20 **5. The **filmy object of Claim 1, wherein, after the immersion, the **filmy object expands to come to have a film surface area larger by 60% or more than the film surface area before the immersion.******

25 **6. The **filmy object of Claim 1, wherein, after the immersion, the **filmy object expands to come to have a film surface area larger by 30% or more than the film surface area before the immersion.******

30 **7. The **filmy object of Claim 1, characterized in that, in said electrolytic polymerization method,****
 the monomer is pyrrole and/or a pyrrole derivative, and

the electrolyte solution contains perfluoroalkylsulfonylimide ion represented by the formula (1):

(C_nF_(2n+1) SO₂)(C_mF_(2m+1) SO₂) N⁻ (1)
(here, n and m are arbitrary integers.).